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DATE MAILED: 04/12/2006

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/827,398	04/19/2004	Peter T. Aylward	85184LMB	3106
7590 04/12/2006			EXAMINER	
Paul A. Leipold, Patent Legal Staff,			WALKE, AMANDA C	
Eastman Kodak	Company			
343 State Street Rochester, NY 14650-2201			ART UNIT	PAPER NUMBER
			1752	

Please find below and/or attached an Office communication concerning this application or proceeding.

-		Application No.	Applicant(s)
Office Action Summary		10/827,398	AYLWARD ET AL.
		Examiner	Art Unit
		Amanda C. Walke	1752
T Period for I	The MAILING DATE of this communication app Reply	ears on the cover sheet with the c	orrespondence address
WHICHI - Extensio after SIX - If NO pe - Failure to Any reply	RTENED STATUTORY PERIOD FOR REPLY EVER IS LONGER, FROM THE MAILING DA ns of time may be available under the provisions of 37 CFR 1.13 (6) MONTHS from the mailing date of this communication. riod for reply is specified above, the maximum statutory period w or reply within the set or extended period for reply will, by statute, y received by the Office later than three months after the mailing atent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timused and will expire SIX (6) MONTHS from a cause the application to become ABANDONE!	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status			
2a)⊠ Tł 3)⊡ Si	esponsive to communication(s) filed on <u>03 Octoors</u> nis action is FINAL . 2b) This nce this application is in condition for allowards and in accordance with the practice under Expression in the Expression i	action is non-final. nce except for formal matters, pro	
Disposition	of Claims		
4a 5)	aim(s) 1-26 is/are pending in the application. Of the above claim(s) is/are withdraw aim(s) is/are allowed. aim(s) 1-26 is/are rejected. aim(s) is/are objected to. aim(s) are subject to restriction and/or Papers e specification is objected to by the Examine	vn from consideration. r election requirement.	
10)□ Th Ar	e drawing(s) filed on is/are: a) acception and request that any objection to the explacement drawing sheet(s) including the correct	epted or b)⊡ objected to by the Edrawing(s) be held in abeyance. See	e 37 CFR 1.85(a).
11)∐ Th	e oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.
Priority und	ler 35 U.S.C. § 119		
a) 1. 2. 3.	knowledgment is made of a claim for foreign All b) Some * c) None of: Certified copies of the priority documents Copies of the certified copies of the priority documents copies of the certified copies of the priority documents the attached detailed Office action for a list	s have been received. s have been received in Application ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National Stage
2) Notice o Informat	f References Cited (PTO-892) f Draftsperson's Patent Drawing Review (PTO-948) ion Disclosure Statement(s) (PTO-1449 or PTO/SB/08) b(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Campbell (5,612,283) in view of Dalvey et al (6,753,050 or 6,884,311).

Campbell discloses a dye-receiving element for thermal dye transfer comprising a support having on the front side thereof, in order, a biaxially-oriented composite film laminated thereto and a dye image-receiving layer, the composite film comprising a microvoided thermoplastic core layer and at least one substantially void-free thermoplastic surface layer, the support having on the back side thereof a biaxially-oriented transparent film laminated thereto which has a light transmission of at least 70%, the ratio of thickness of the transparent film to the composite film being from about 0.45 to about 0.75. Due to their relatively low cost and good appearance, composite films are generally used and referred to in the trade as "packaging films." The low specific gravity of microvoided packaging films (preferably between 0.3-0.7 g/cm.sup.3) produces dye-receivers that are very conformable and results in low mottle-index values of thermal prints. These microvoided packaging films also are very insulating and produce dye-receiver prints of high dye density at low energy levels. The nonvoided skin produces receivers of high gloss and helps to promote good contact between the dye-receiving layer and the dye-donor film. This also enhances print uniformity and efficient dye transfer. In

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products made by a typical extrusion lamination process, back printing labels, water marks and logos are applied directly to the back side of the paper support stock with inks applied by a gravure printing process. It would be desirable to have such "back printing" indicia be visible, however, the reference is not specife as to the method of printing the indicia.

Dalvey et al disclose an image transfer sheet comprises a release layer and a polymer layer. One or more of the release layer and the polymer layer comprise titanium oxide or other white pigment. One embodiment of the present invention includes a method for transferring an image to a colored substrate. The method comprises providing an image transfer sheet comprising a release layer and an image-imparting layer that comprises a polymer. The imageimparting layer comprises titanium oxide or another white pigment or luminescent pigment. The image transfer sheet is contacted to the colored substrate. Heat is applied to the image transfer sheet so that an image is transferred from the image transfer sheet to the colored substrate. The image transferred comprises a substantially white or luminescent background and indicia. Another embodiment of the present invention includes an image transfer sheet. The image transfer sheet comprises a polymer. The polymer comprises titanium oxide or other white pigment or luminescent pigment. One other embodiment of the present invention includes a method for making an image transfer sheet. The method comprises providing an ink receptive polymer and impregnating the polymer with titanium oxide or other white pigment or luminescent pigment. An image is imparted to the polymer. With the method of the present invention, a sheet such as is shown at 104a, is prepared having a substrate layer 302 that comprises a polymeric material such as polypropylene, paper, a polyester film, or other film or films having a matte or glossy finish, such as is shown in FIG. 3a. The substrate layer 302 may

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be coated with clay on one side or both sides. The substrate layer may be resin coated or may be free of coating if the substrate is smooth enough. The resin coating acts as a release coating 306. The coating weight typically ranges from 40 g/square meter to 250 g/square meter. In one embodiment, the range is 60 to 130 g/square meter. In one embodiment, overlaying the substrate 302 or base paper is a silicon coating 304. Other release coatings such as fluorocarbon, urethane, or acrylic base polymer are usable in the image transfer device of the present invention. One other release coating is a silicone coating. The silicone coating has a release value of about 10 to 2500 g/inch, using a Tesa Tape 7375 tmi, 90 degree angle, 1 inch tape, 12 inches per minute. These other release coatings are, for some embodiments, impregnated with titanium oxide or other white pigments in a concentration of about 20% by weight. In other embodiments of the image transfer sheet, a changeable color was added to one or more of the layers of the image transfer sheet. The color-changeable material transferred utilized a material such as a temperature sensitive pigmented chemical or light changeable material, a neon light which glows in the dark for over 50 hours and was a phosphorescent pigment, a zinc-oxide pigment or a lightsensitive colorant. A concentrated batch of one or more of the materials of polyethylene, polyester, EVA, EAA, polystyrene, polyamide or MEAA which was a Nucrel-like material was prepared. The color-changeable material was added to the layer material up to a concentration of 100% by weight with 50% by weight being typical. The color-changeable material technologies changed the image transfer sheet from colorless to one or more of yellow, orange, red, rose, red, violet, magenta, black, brown, mustard, taupe, green or blue. The color-changeable material changed the image transfer sheet color from yellow to green or from pink to purple. In particular, sunlight or UV light induced the color change.

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Given the teachings of the references, it would have been obvious to one of ordinary skill in the art to prepare the material of Campbell choosing to employ the improved method of forming an indicia taught by Dalvey et al with reasonable expectation of achieving a support having good light transmission.

Response to Arguments

3. Applicant's arguments filed 10/3/2005 have been fully considered but they are not persuasive. Applicant has argued that the references relied upon in the rejection of record may not be combined because the Dalvey reference does not teach a dye transfer. The examiner respectfully disagrees. The Dalvey reference teaches that pigments and coloring agents (that are known and in the background dyes and dye precursors are mentioned as typical colorants), as well as dye fixing agents are employed in the layer. Heat is applied and the colored image(s) are transferred. Given that the layer may comprise any known coloring agents/ pigments, and that dye fixers are contemplated for use in the layer, as well as dyes and dye precursors being taught as conventional colorants, the examiner takes the position that the layer does in fact transfer a dye and therefore teaches the instantly claimed method of transferring indicia to a support, or non-image side of the support of Campbell et al.

Conclusion

4. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

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the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Amanda C. Walke whose telephone number is 571-272-1337. The examiner can normally be reached on M-R 5:30-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia Kelly can be reached on 571-272-1526. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Examiner

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ACW December 22, 2005